

Sequence Listing.txt
SEQUENCE LISTING

<110> Hong Kong University of Science & Technology
Hsiao, Win-Luan
Wong, Sze-Chuen

<120> Plasma or Serum Marker and Process for Detection of Cancer

<130> 32144183-000004

<140> US 10/516,864
<141> 2003-06-27

<150> US 60/392,191
<151> 2002-06-28

<160> 13

<170> PatentIn version 3.3

<210> 1
<211> 3697
<212> DNA
<213> Homo sapiens

<400> 1
cccacgcgtc cgggcagcag cgttggcccg gccccgggag cggagagcga ggggaggcgg 60
agacggagga aggtctgagg agcagcttca gtccccgccc agccgccacc gcaggtcgag 120
gacggtcgga ctcccgcggc gggaggagcc tggcccttgc aggttatttg aagtatacc 180
tacaactgtt ttgaaaatcc agcgtggaca atggctactc aagctgattt gatggagttg 240
gacatggcca tggaaaccaga cagaaaagcg gctgttagtc actggcagca acagtcttac 300
ctggactctg gaatccattc tgggccact accacagctc cttctctgag tggtaaaggc 360
aatcctgagg aagaggatgt ggataccctc caagtcctgt atgagtggga acagggattt 420
tctcagtcct tcactcaaga acaagtagct gatattgtatg gacagtatgc aatgactcga 480
gctcagaggg tacgagctgc tatgtccct gagacattag atgagggcat gcagatccca 540
tctacacagt ttgatgctgc tcatccact aatgtccagc gtttggctga accatcacag 600
atgctgaaac atgcagttgt aaacttgatt aactatcaag atgatgcaga acttgccaca 660
cgtgcaatcc ctgaactgac aaaactgcta aatgacgagg accaggtgg ggttaataag 720
gctgcagttt tggccatca gctttctaaa aaggaagctt ccagacacgc tatcatgcgt 780
tctcctcaga tgggtctgc tattgtacgt accatgcaga atacaaatga tgtagaaaca 840
gctcgttgc cgcgtggac cttgcataac cttccatc atcgtgaggg cttactggcc 900
atcttaagt ctggaggcat tcctgccctg gtgaaaatgc ttggttcacc agtggattct 960
gtgttggat atgccattac aactctccac aacctttat tacatcaaga aggagctaaa 1020
atggcagtgc gtttagctgg tggcgtgcag aaaatggttg ctttgctcaa caaaacaaat 1080
gttaaattct tggctattac gacagactgc cttcaaattt tagcttatgg caaccaagaa 1140

Sequence Listing.txt

agcaagctca tcatactggc tagtggtgga ccccaagctt tagtaaatat aatgaggacc	1200
tatacttacg aaaaactact gtggaccaca agcagagtgc tgaaggtgct atctgtctgc	1260
tctagtaata agccggctat tgtagaagct ggtggaatgc aagctttagg acttcacctg	1320
acagatccaa gtcacacgtct tgttcagaac tgtctttgga ctctcaggaa tccttcagat	1380
gctgcaacta aacaggaagg gatggaaggt ctccctggga ctcttgcata gcttctgggt	1440
tcagatgata taaatgtggt cacctgtgca gctggaaattc tttctaacct cacttgcata	1500
aattataaga acaagatgat ggtctgccaa gtgggtggta tagaggctct tgtgcgtact	1560
gtccttcggg ctgggtacag ggaagacatc actgagcctg ccatactgtgc tcttcgtcat	1620
ctgaccagcc gacaccaaga agcagagatg gcccagaatg cagttcgccct tcactatgg	1680
ctaccagttg tggtaagct cttacaccca ccatacccact ggcctctgat aaaggctact	1740
gttggattga ttgcgaaatct tgccctttgt cccgcaaatc atgcacctt gcgtgagcag	1800
ggtgccattc cacgactagt tcagttgctt gttcgtgcac atcaggatac ccagcgccgt	1860
acgtccatgg gtgggacaca gcagcaattt gtggaggggg tccgcatgga agaaatagtt	1920
gaaggttcta ccggagccct tcacatccta gctcgggatg ttcacaaccg aattgttata	1980
agaggactaa ataccattcc attgtttgtg cagctgcttt attctccat tgaaaacatc	2040
caaagagtag ctgcaggggt cctctgtgaa cttgctcagg acaaggaagc tgcagaagct	2100
attgaagctg agggagccac agctccctcg acagagttac ttcactctag gaatgaaggt	2160
gtggcgacat atgcagctgc tgtttgttc cgaatgtctg aggacaagcc acaagattac	2220
aagaaacggc tttcagttga gctgaccagc tctctttca gaacagagcc aatggcttgg	2280
aatgagactg ctgatcttg acttgatatt ggtgcccagg gagaaccctt tggatatcgc	2340
caggatgatc cttagctatcg ttctttcac tctggtgat atggccagga tgccttgggt	2400
atggacccca ttagtggaca tgagatgggt ggccaccacc ctggtgctga ctatccagtt	2460
gatggctgc cagatctggg gcatgcccag gacctcatgg atgggctgcc tccaggtgac	2520
agcaatcagc tggcctgggt tgatactgac ctgtaaatca tcctttaggt aagaagtttt	2580
aaaaagccag tttgggtaaa atactttac tctgcctaca gaacttcaga aagacttgg	2640
tggtagggtg ggagtggttt aggctattt taaatctgcc acaaaaacag gtataactt	2700
tgaaaggaga tgtctggaa cattggaatg ttctcagatt tctgggtgtt atgtgatcat	2760
gtgtggaagt tattaactt aatgtttttt gccacagctt ttgcaactta atactcaaat	2820
gagtaacatt tgctgtttta aacattaata gcagccttc tctcttata cagctgtatt	2880
gtctgaactt gcattgtgat tggcctgtag agttgctgag agggctcgag gggtgggctg	2940
gtatctcaga aagtgcctga cacactaacc aagctgagtt tcctatggga acaattgaag	3000

Sequence Listing.txt

taaactttt gttctggtcc ttttggtgc aggagtaaca atacaatgg atttggag	3060
tgactcaaga agtgaagaat gcacaagaat ggcacacaag atggatcta gcaaacccta	3120
gccttgctt taaaatttt ttttttttt ttttaagaat atctgtatg gtactgactt	3180
tgcttgctt gaagtagctc ttttttttt ttttttttgc agtaactgtt	3240
tttaagtct ctcgtatgt taagttatag tgaatactgc tacagcaatt tctaatttt	3300
aagaattgag taatgggtta gaacactaat taattcataa tcactctaattttaattgtat	3360
ctgaataaaag tgtaacaatt gtgtacccctt tttgtataaa atagacaaat agaaaatgg	3420
ccaatttagtt tccttttaa tatgcttaaa ataaggcagggtt ggatctattt catgttttg	3480
atcaaaaact atttggata tttatggta gggtaaatca gtaagaggtt ttatggaa	3540
ccttgttttg gacagtttac cagttgcctt ttatccaaa gttgttgtaa cctgctgtga	3600
tacgatgctt caagagaaaaa tgcggttata aaaaatggtt cagaattaaa cttttaaattc	3660
attcaaaaaaa aaaaaaaaaaa aaaaaaaaaaa aaaaaaaaaaa	3697

<210> 2
 <211> 3778
 <212> DNA
 <213> Homo sapiens

<400> 2	
ccatttcctc ctcctagccg gactggaggg agacaaagca gcgccgtct gcttcgggcc	60
tctggatattt agcgctcgcc cagctagccg cagaaatgac tgctgtccat gcaggcaaca	120
taaacttcaa gtgggatcctt aaaaatctag agatcaggac tctggcagtt gagagactgt	180
tggacccctt ttttacacag gttacaaccc ttgttaaacac caatagtaaa gggccctcta	240
ataagaagag aggtcgttt aagaaggccc atgtttggc tgcatctgtt gaacaagcaa	300
ctgagaattt cttggagaag gggataaaaa ttgcgaagga gagccagttt ctcaaggagg	360
agtttgcgc tgctgttagaa gatgttcgaa aacaaggtaa tttgtatgaag gctgctgcag	420
gagagttcgc agatgatccc tgctctctg tgaagcgagg caacatggtt cggcagctc	480
gagctttgct ctctgctgtt accccgggtgc tgatggc tgacatggca gatgtctaca	540
aattacttgt tcaagctgaaa gttgttggaaatggatctt gaagttggagg aatgctggca	600
atgaacaaga ctttaggaatc cagataaaag ccctaaaacc tgaagtggat aagctgaaca	660
ttatggcagc caaaagacaa caggaattga aagatgttgg ccacatgtat cagatggctg	720
cagctagagg aatcctgcag aagaacgttc cgatcctcta tactgcatacc caggcatgcc	780
tacagcaccc tggatgtcgca gcctataagg ccaacaggaa cctgatatac aagcagctgc	840
agcaggcggt cacaggcatt tccaaatgcag cccaggccac tgcctcagac gatgcctcac	900
agcaccaggg tggaggagga ggagaactgg catatgcact caataacttt gacaaacaaa	960

Sequence Listing.txt

tcattgtgga	ccccttgagc	ttcagcgagg	agcgcttag	gcctccctg	gaggagcg	tc	1020
tggaaagcat	cattagtggg	gctgccttga	tggccgactc	gtcctgcacg	cgtgatgacc		1080
gtcgtgagcg	aattgtggca	gagtgtaatg	ctgtccgcca	ggccctgcag	gacctgctt		1140
cggagtagat	gggcaatgct	ggacgtaaag	aaagaagtga	tgcactcaat	tctgcaatag		1200
ataaaatgac	caagaagacc	agggacttgc	gtagacagct	ccgcaaagct	gtcatggacc		1260
acgtttcaga	ttcttcctg	gaaaccaatg	ttccactttt	ggtattgatt	gaagctgcaa		1320
agaatggaaa	tgagaaagaa	gttaaggagt	atgccaagt	tttccgtgaa	catgccaaca		1380
aattgattga	ggttgccaaac	ttggcctgtt	ccatctcaaa	taatgaagaa	ggtgtaaagc		1440
ttgttcgaat	gtctgcaagc	cagttagaag	ccctctgtcc	tcaggttatt	aatgctgcac		1500
tggctttagc	agcaaaacca	cagagtaaac	tggcccaaga	gaacatggat	ctttttaaag		1560
aacaatggga	aaaacaagtc	cgtttctca	cagatgctgt	cgtacatgac	acttccattg		1620
atgacttctt	ggctgtctca	gagaatcaca	ttttggaaga	tgtgaacaaa	tgtgtcattg		1680
ctctccaaga	gaaggatgt	gatggcctgg	accgcacagc	tggcgtcaatt	cgaggccgg		1740
cagcccggt	cattcacgt	gtcacccctag	agatggacaa	ctatgagcca	ggagtctaca		1800
cagagaaggt	tctggaagcc	actaagctgc	tctccaacac	agtcatgcca	cgttttactg		1860
agcaagtaga	agcagccgt	gaagccctca	gctcggaccc	tgcccagccc	atggatgaga		1920
atgagttat	cgtatgttcc	cgcctggat	atgatggcat	ccggacatc	aggaaagcag		1980
tgctgtat	aaggacccct	gaggagttgg	atgactctga	ctttgagaca	gaagatttg		2040
atgtcagaag	caggacgagc	gtccagacag	aagacgatca	gctgatagct	ggccagagtg		2100
cccgccgat	catggctcg	cttccccagg	agcaaaaagc	gaagattgcg	gaacaggtgg		2160
ccagcttcca	ggaagaaaag	agcaagctgg	atgctgaatg	gtccaaatgg	gacgacagtg		2220
gcaatgacat	cattgtgctg	gccaagcaga	tgtgcataat	tatgatggag	atgacagact		2280
ttacccgagg	taaaggacca	ctcaaaaata	catcggatgt	catcagtgt	gccaagaaaa		2340
ttgctgaggc	aggatccagg	atggacaagc	ttggccgac	cattgcagac	cattgccccg		2400
actcggcttg	caagcaggac	ctgctggcct	acctgcaacg	catcgccctc	tactgccacc		2460
agctgaacat	ctgcagcaag	gtcaaggccg	aggtgcagaa	tctcggcggg	gagcttgg		2520
tctctgggt	ggacagcgcc	atgtccctga	tccaggcagc	caagaacttg	atgaatgctg		2580
tggtgcagac	agtgaaggca	tcctacgtcg	cctctaccaa	ataccaaaag	tcacagggt		2640
tggcttcct	caacccctt	gctgtgtcat	ggaagatgaa	ggcaccagag	aaaaagccat		2700
tggtgaagag	agagaaacag	gatgagacac	agaccaagat	taaacgggca	tctcagaaga		2760
agcacgtgaa	cccggtgcag	gccctcagcg	agttcaaagc	tatggacagc	atctaagtct		2820
gcccaggccg	gccgccccca	cccctcgggg	ctcctgaata	tcagtcactg	ttcgtcactc		2880

Sequence Listing.txt

aatgaattt gctaaataca acactgatac tagattccac agggaaatgg gcagactgaa	2940
ccagtccagg tggtaattt tccaagaaca tagtttaagt tgattaaaaa tgctttaga	3000
atgcaggagc ctacttctag ctgtatTTT tgtatgctta aataaaaata aaaattcata	3060
accaaagaga atcccacatt agcttggtag taatgctctg accaagccga gatgccatt	3120
ctcttagtga tggcggcgTTT agggTTTgag agaagggaaat ttggctcaac ttcagTTgag	3180
agggtgcagt ccagacagct tgactgcttt taaatgacca aagatgacct gtggtaagca	3240
acctgggcat cttaggaagc agtccctgga gaaggcatgt tcccagaaag gtctctggag	3300
ggacaaactc actcagtaaa acataatgta tcatgaagaa aactgattct ctatgacatg	3360
aatgaaaat tttaatgcat tgTTATAATT actaatgtac gctgctgcag gacattaata	3420
aagttgcttt tttaggctac agtgcTcga tgccataatc agaacacact tttttcctc	3480
tttctcccag cttcaatgc aaattcatca ttgggctcac ttctaataac tgcagtgttt	3540
cccgccTTgg gcttgcagca gaaaaacctg acaacatagt gtttgcTAAG gcagtaattt	3600
agactttacc ttatttgtga ttactgttagt gattgattga ttgattacta ttaactacaa	3660
ggtataattt actatcacct tatttaattt ttatgaattt atttgaatgt tttttacact	3720
aactaacttt tcccaataaa gtccactatg aaaccacgac aaaaaaaaaa aaaaaaaaa	3778

<210> 3
 <211> 4828
 <212> DNA
 <213> Homo sapiens

<400> 3	
agtggcgtcg gaactgcAAA gcacCTgtGA gCTTgcggAA gTCAGTTcAg actccagccc	60
gCTCCAGccc ggcccGACCC gaccgcACCC ggcgcCTGCC cTCgcTCggc gTCCCCggCC	120
agccatggcC cCTTggagCC gcAGCCTCTC ggcgcTgCTg ctgCTgCTgc aggtCTCCTC	180
ttggCTCTgc caggagCCgg agccCTgCCA ccCTggCTTT gacGCCgaga gCTACACGTT	240
cacggTgccc cggcgCCACC tggagAGAGg ccgcgtCCTg ggcAGAGTgA atTTTgAAGA	300
ttgcACCGGT cgacAAAGGA cAGCCTATTt ttCCCTCGAC accCGATTCA aAGTgggCAC	360
agatggTGTg attACAGTCA aaAGGCCTCT acggTTTCAt aACCCACAGA tCCATTCTT	420
ggTCTACGCC tgggACTCCA CCTACAGAAA gTTTCCACC aaAGTCACGC tGAATACAGT	480
ggggCACCAC caccGCCccc CGCCCCATCA ggcCTCCGTT tCTGGAATCC aAGCAGAAATT	540
gCTCACATTt CCCAACTCCT cTCCTGGCCT cagaAGACAG aAGAGAGACT gggTTATTCC	600
tCCCATCAGC tgCCCAgAAA atgAAAAAGG cCCATTCTCt AAAAACCTGG tTCAGATCAA	660
atCCAACAAA gacAAAGAAG gCAAGGTTT CTACAGCATC ACTGGCCAAG gagCTgACAC	720
ACCCCTGTT ggtgtCTTTA ttattgAAAG agAAACAGGA tggCTGAAGG tgACAGAGCC	780

Sequence Listing.txt

tctggataga gaacgcattg ccacatacac tctttctct cacgctgtgt catccaacgg	840
gaatgcagtt gaggatccaa tggagatttt gatcacggta accgatcaga atgacaacaa	900
gcccgaattc acccaggagg tcttaaggg gtctgtcatg gaaggtgctc ttccaggaac	960
ctctgtatg gaggtcacag ccacagacgc ggacgatgat gtgaacacct acaatgccgc	1020
catcgcttac accatcctca gccaagatcc tgagctccct gacaaaaata tgttcaccat	1080
taacaggaac acaggagtca tcagtgttgt caccactggg ctggaccgag agagtttccc	1140
tacgtatacc ctggtggttc aagctgctga ccttcaaggt gaggggttaa gcacaacagc	1200
aacagctgtg atcacagtca ctgacaccaa cgataatcct ccgatcttca atcccaccac	1260
gtacaagggt caggtgcctg agaacgaggc taacgtcgtatcaccacac taaaagtgtac	1320
tgtatgctgat gcccccaata ccccgctg ggaggctgta tacaccatat tgaatgatga	1380
tggtgacaa tttgtcgtca ccacaaatcc agtgaacaac gatggcattt taaaacacgc	1440
aaaggcctt gatttgagg ccaagcagca gtacattcta cacgtacgtac tgacgaatgt	1500
ggtacccccc gaggtctctc tcaccaccc cacagccacc gtcaccgtgg atgtgctgga	1560
tgtgaatgaa gccccatct ttgtgcctcc taaaagaga gtggaaagtgt ccgaggactt	1620
tggcgtggc cagaaatca catcctacac tgcccaggag ccagacacat ttatgaaaca	1680
gaaaataaca tatcgattt ggagagacac tgccaactgg ctggagatta atccggacac	1740
tggtgcatt tccactcggg ctgagctgga cagggaggat tttgagcacg tgaagaacag	1800
cacgtacaca gccctaatca tagtacaga caatggttct ccagttgcta ctggacacagg	1860
gacacttctg ctgatcctgt ctgatgtgaa tgacaacgcc cccataccag aacctcgaa	1920
tatattcttc tgtgagagga atccaaagcc tcaggtcata aacatcattg atgcagaccc	1980
tcctccaaat acatctccct tcacagcaga actaacacac gggcgagtg ccaactggac	2040
cattcagtac aacgacccaa cccaaagaaatc tatcatttt aagccaaaga tggccttaga	2100
ggtgggtgac tacaaaatca atctcaagct catggataac cagaataaag accaagtgtac	2160
caccttagag gtcagcgtgt gtgactgtga aggggcccggc ggcgtctgta ggaaggcaca	2220
gcctgtcgaa gcaggattgc aaattcctgc cattctgggg attcttggag gaattcttgc	2280
tttgctaatt ctgattctgc tgctcttgct gtttcttgg aggagagcgg tggtaaaga	2340
gcccttactg ccccccagagg atgacaccccg ggacaacgtt tattactatg atgaagaagg	2400
aggcggagaa gaggaccagg actttgactt gagccagctg cacaggggcc tggacgctcg	2460
gcctgaagtg actcgtaacg acgttgcacc aaccctcatg agtgcctcc ggtatcttcc	2520
ccgcctgccc aatcccgatg aaattggaaa ttttattgat gaaaatctga aagcggctga	2580
tactgacccc acagccccgc cttatgattc tctgctcgtg tttgactatg aaggaagcgg	2640

Sequence Listing.txt

ttccgaagct gctagtctga gctccctgaa ctcctcagag tcagacaaag accaggacta	2700
tgactacttg aacgaatggg gcaatcgctt caagaagctg gctgacatgt acggaggcgg	2760
cgaggacgac taggggactc gagagaggcg ggcccccagac ccatgtgctg ggaaatgcag	2820
aaatcacgtt gctggtggtt tttcagctcc cttcccttga gatgagttc tggggaaaaa	2880
aaagagactg gtttagttagt cagtttagtat agctttatac tctctccact ttatagctct	2940
aataagttt gtttagaaaaa gtttcgactt atttcttaaa gcttttttt ttttcccattc	3000
actctttaca tggtggtgat gtccaaaaga tacccaaatt ttaatattcc agaagaacaa	3060
cttttagcatc agaaggttca cccagcacct tgcagattt cttaaaggaat tttgtctcac	3120
ttttaaaaag aaggggagaa gttagtact ctagttctgt tgtttgtgt atataatttt	3180
ttaaaaaaaaa tttgtgtgct tctgctcatt actacactgg tgtgtccctc tgcccttttt	3240
ttttttttta agacagggtc tcattctatc ggccaggctg gagtgcagtg gtgcaatcac	3300
agctcaactgc agccttgc tcccaggctc aagctatcct tgcacccatc cctcccaagt	3360
agctggacc acaggcatgc accactacgc atgactaatt ttttaatat ttgagacggg	3420
gtctccctgt gttacccagg ctggtctcaa actcctggc tcaagtgatc ctcccatctt	3480
ggcctcccaag agtattggga ttacagacat gagccactgc acctgcccag ctcccaact	3540
ccctgccatt ttttaagaga cagttcgct ccatcgccca ggctggat gcagtgatgt	3600
gatcatagct cactgttaacc tcaaactctg gggctcaagc agttctccca ccagcctcct	3660
ttttattttt ttgtacagat ggggtctgc tatgttgc aagctggct taaaactcctg	3720
gcctcaagca atccttctgc cttggccccc caaagtgcgtg ggattgtggg catgagctgc	3780
tgtgcccagc ctccatgttt taatatcaac tctcaactcct gaattcagtt gctttgcccc	3840
agataggagt tctctgatgc agaaattatt gggctttttt aggtaagaa gtttgtgtct	3900
ttgtctggcc acatcttgac tagttattgt ctactctgaa gacctttaat ggcttccctc	3960
tttcatctcc tgagtatgta acttgcaatg ggcagctatc cagtgacttg ttctgagtaa	4020
gtgtgttcat taatgtttat ttagctctga agcaagagtg atataactcca ggacttagaa	4080
tagtgcctaa agtgctgcag ccaaagacag agcggacta tggaaagtgg gcttggagat	4140
ggcaggagag cttgtcattt agcctggcaa tttagcaaac tgcgtgatg gatgatttag	4200
gtgggtctac ctcatctctg aaaattctgg aaggaatgga ggagtctcaa catgtgtttc	4260
tgacacaaga tccgtggttt gtactcaaag cccagaatcc ccaagtgcct gctttgatg	4320
atgtctacag aaaatgctgg ctgagctgaa cacatttgc caattccagg tgtgcacaga	4380
aaaccgagaa tattcaaaat tccaaatttt ttcttaggag caagaagaaa atgtggccct	4440
aaagggggtt agttgagggg taggggttag tgaggatctt gattggatc tcttttatt	4500
taaatgtgaa tttcaacttt tgacaatcaa agaaaagact tttgtgaaa tagctttact	4560

Sequence Listing.txt

gtttctcaag tgtttggag aaaaaaatca accctgcaat cacttttgg aattgtcttg	4620
attttcggc agttcaagct atatcgaata tagttctgtg tagagaatgt cactgttagtt	4680
ttgagtgtat acatgtgtgg gtgctgataa ttgtgtatTT tctttggggg tggaaaagga	4740
aaacaattca agctgagaaa agtattctca aagatgcatt tttataaatt ttattaaaca	4800
attttgttaa accataaaaa aaaaaaaa	4828

<210> 4
<211> 21
<212> DNA
<213> Artificial

<220>
<223> Primer

<400> 4 atttgatgga gttggacatg g	21
------------------------------------	----

<210> 5
<211> 21
<212> DNA
<213> Artificial

<220>
<223> Primer

<400> 5 agctacttgt tcttgagtga a	21
------------------------------------	----

<210> 6
<211> 21
<212> DNA
<213> Artificial

<220>
<223> Primer

<400> 6 tgatttgatg gagttggaca t	21
------------------------------------	----

<210> 7
<211> 21
<212> DNA
<213> Artificial

<220>
<223> Primer

<400> 7 cattgcatac tgtccatcaa t	21
------------------------------------	----

<210> 8
<211> 21
<212> DNA

Sequence Listing.txt

<213> Artificial

<220>

<223> Primer

<400> 8

aatatcgatgcg tgacatataag g

21

<210> 9

<211> 21

<212> DNA

<213> Artificial

<220>

<223> Primer

<400> 9

atgatggagt tgaaggtagt t

21

<210> 10

<211> 21

<212> DNA

<213> Artificial

<220>

<223> Primer

<400> 10

tcaatgggtc atatcacaga t

21

<210> 11

<211> 21

<212> DNA

<213> Artificial

<220>

<223> Primer

<400> 11

ctgcattctg actttcagta a

21

<210> 12

<211> 20

<212> DNA

<213> Artificial

<220>

<223> Primer

<400> 12

cctctgcgtt gccaaaggctc.

20

<210> 13

<211> 22

<212> DNA

<213> Artificial

<220>

Sequence Listing.txt

<223> Primer

<400> 13

tgtggcaaa cttgtggtag ca

22